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(PIEZOELECTRIC NEAR (LAYER* or laminat* or stack or plies)) and ((first or low* or high*)
near "dielectric constant"): 0 records

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(PIEZOELECTRIC NEAR (LAYER* or laminat* or stack



No records matching your query found in PCT

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PIEZOELECTRIC NEAR LAYER*: 746 occurrences in 375 records.

PIEZOELECTRIC NEAR laminat*: 77 occurrences in 39 records.

(PIEZOELECTRIC NEAR LAYER* OR PIEZOELECTRIC NEAR laminat*): 400 records.

PIEZOELECTRIC NEAR stack: 95 occurrences in 57 records.

((PIEZOELECTRIC NEAR LAYER* OR PIEZOELECTRIC NEAR laminat*) OR PIEZOELECTRIC NEAR stack): 442 records.

PIEZOELECTRIC NEAR plies: 1 occurrence in 1 record.

(((PIEZOELECTRIC NEAR LAYER* OR PIEZOELECTRIC NEAR laminat*) OR PIEZOELECTRIC NEAR stack) OR
PIEZOELECTRIC NEAR plies): 443 records.

first NEAR "dielectric constant": 0 occurrences in 0 records.

low* NEAR "dielectric constant": 0 occurrences in 0 records.

(first NEAR "dielectric constant" OR low* NEAR "dielectric constant"): 0 records.

high* NEAR "dielectric constant": 0 occurrences in 0 records.

((first NEAR "dielectric constant" OR low* NEAR "dielectric constant") OR high* NEAR "dielectric constant"): 0 records.

(((PIEZOELECTRIC NEAR LAYER* OR PIEZOELECTRIC NEAR laminat*) OR PIEZOELECTRIC NEAR stack)
OR PIEZOELECTRIC NEAR plies) AND ((first NEAR "dielectric constant" OR low* NEAR "dielectric constant") OR
high* NEAR "dielectric constant")): 0 records.Search Time: 0.27 seconds.

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Search Results 10/10/2007 - 11:10:15

Query :

((piezoelectric)) <AND> (((stack or l

Query: ((piezoelectric)) <AND> (((stack or laminat* or layer* or multilayer*)) <in> abstract) <AND> ((("dielectric constant")) <in> claims)

9 documents out of 1926019 matched your query. Click on its number to view the details of the document.

Note: All document detail pages now appear on a new Browser Window.

- | | | |
|----------------------------|---|-----|
| 1. 2561618 | IMPROVED THICK FILM DIELECTRIC STRUCTURE FOR THICK DIELECTRIC ELECTROLUMINESCENT DISPLAYS | 87% |
| 2. 2271282 | PROCESS FOR FABRICATING DEVICE COMPRISING LEAD ZIRCONATE TITANATE | 82% |
| 3. 2228741 | ELECTRODING OF CERAMIC PIEZOELECTRIC TRANSDUCERS | 82% |
| 4. 2346059 | INTEGRATED MULTILAYERED MICROFLUIDIC DEVICES AND METHODS FOR MAKING THE SAME | 80% |
| 5. 2106549 | ULTRASONIC TRANSDUCERS | 80% |
| 6. 1154861 | ULTRASONIC TRANSDUCER WITH A PIEZOELECTRIC PLASTIC RECEIVING LAYER | 80% |
| 7. 2373613 | A MULTI-OUTPUT COMPOSITE PIEZOELECTRIC TRANSFORMER WITH EXPANSION VIBRATION MODE | 77% |
| 8. 2176347 | ARRAY OF THIN FILM ACTUATED MIRRORS | 77% |

RESULT LIST

0 results found in the Worldwide database for:

piezoelectric near laminat* in the title AND "**dielectric constant**" in the title or abstract
(Results are sorted by date of upload in database)

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

0 results found in the Worldwide database for:
piezoelectric near layer* in the title AND "**dielectric constant**" in the title or abstract
(Results are sorted by date of upload in database)

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

0 results found in the Worldwide database for:
piezoelectric near stack in the title AND "**dielectric constant**" in the title or abstract
(Results are sorted by date of upload in database)

Data supplied from the **esp@cenet** database - Worldwide

tmj

RESULT LIST

27 results found in the Worldwide database for:
"dielectric constant" and piezoelectric and first in the title or abstract
(Results are sorted by date of upload in database)

- 1 COMPLEX OXIDE FILM AND METHOD FOR PRODUCING SAME, DIELECTRIC MATERIAL INCLUDING COMPLEX OXIDE FILM, PIEZOELECTRIC MATERIAL, CAPACITOR, PIEZOELECTRIC ELEMENT AND ELECTRONIC DEVICE.**

Inventor: SHIRAKAWA AKIHIKO (JP) Applicant: SHOWA DENKO KK (JP); SHIRAKAWA AKIHIKO (JP)
EC: C01G23/00; C01G23/00F4; (+6) IPC: **C01G23/00; C01B13/32; C25D11/18** (+13)
Publication info: **WO2007013598** - 2007-02-01

2 Dielectric element, piezoelectric element, ink jet head and ink jet recording apparatus and manufacturing method of same

Inventor: MATSUDA TAKANORI (JP); IFUKU TOSHIHIRO Applicant: CANON KK (JP); WASA KIYOTAKA (JP)
(JP); (+2)
EC: H01G4/12B2B; B41J2/14D2; (+8) IPC: **H01L41/09; B41J2/01; B41J2/045** (+8)
Publication info: **TW255057B** - 2006-05-11

3 LEAD-FREE PIEZOELECTRIC CERAMICS AND PREPARATION METHOD THEREOF

Inventor: CHO JEONG HO; KIM BYEONG IK; (+1) Applicant: KOREA INST OF CERAMIC ENGINEER
EC: IPC: **C04B35/46; C04B35/46**; (IPC1-7): C04B35/46
Publication info: **KR20040054965** - 2004-06-26

4 SURFACE ACOUSTIC WAVE ELEMENT AND COMMUNICATION APPARATUS

Inventor: YOKOTA HIROKO; YAMAGATA YOSHIFUMI; Applicant: KYOCERA CORP
(+1)
EC: H03H9/10S3; H03H9/02S4; (+2) IPC: **H03H9/25; H01L41/09; H01L41/18** (+4)
Publication info: **JP2006042008** - 2006-02-09

5 Inkjet head unit

Inventor: SAKAIDA ATSUI (JP) Applicant: BROTHER IND LTD (JP)
EC: B41J2/14D1 IPC: **B41J2/045; B41J2/045**
Publication info: **US2006012649** - 2006-01-19

6 TEMPERATURE CALIBRATION OF PIEZOELECTRIC TRANSDUCERS

Inventor: ADORAM AVNER (IL); PESACH BENNY (IL) Applicant: GLUCON INC (US); ADORAM AVNER (IL);
(+1)
EC: H01L41/08; H01L41/113C IPC: **H01L41/08; H01L41/113; H01L41/08** (+2)
Publication info: **WO03032409** - 2003-04-17

7 Ultrasound converter array comprises a number of elements consisting of piezoelectric ceramic layers and electrodes

Inventor: SMITH LOWELL SCOTT (US); WILDES DOUGLAS GLEN (US); (+1)
EC: B06B1/06C3E; H04R17/00 Applicant: GEN ELECTRIC (US)
IPC: **G01N29/24; A61B8/00; B06B1/06** (+15)
Publication info: **DE10155894** - 2002-09-12

8 Piezoelectric ceramic composition, and high power output transformer made of the same composition

Inventor: KIM JONG SUN (KR); YOO CHOONG SIK Applicant: SAMSUNG ELECTRO MECH (US)
(KR); (+2)
EC: C04B35/493; H01L41/107; (+1) IPC: **C04B35/49; C04B35/493; H01L41/107** (+8)
Publication info: **US2001054704** - 2001-12-27

9 PIEZOELECTRIC CERAMIC COMPOSITION, AND HIGH POWER PIEZOELECTRIC TRANSFORMER

Inventor: KIN SHOSEN; RYU CHUSHOKU; (+2) Applicant: SAMSUNG ELECTRO MECH

*hand***RESULT LIST**

Approximately **197** results found in the Worldwide database for:
"dielectric constant" and piezoelectric and low* in the title or abstract
(Results are sorted by date of upload in database)

1 PIEZOELECTRIC CERAMIC COMPOSITION AND PIEZOELECTRIC ACTUATOR

Inventor: YAMAMOTO A (JP); OGISO KOJI (JP); (+1) Applicant: MURATA MANUFACTURING CO (JP)

EC: H01L41/187

IPC: **C04B35/493; C04B35/49**

Publication info: **EP1840106** - 2007-10-03

2 Piezoelectric actuator

Inventor: WALTER GERHARD (DE); MANN ARMIN (DE) Applicant:

EC: H01L41/083; H01L41/053

IPC: **H01L41/083; H01L41/053; H01L41/083** (+1)

Publication info: **US2007152542** - 2007-07-05

3 COMPLEX OXIDE FILM AND METHOD FOR PRODUCING SAME, COMPOSITE BODY AND METHOD FOR PRODUCING SAME, DIELECTRIC MATERIAL, PIEZOELECTRIC MATERIAL, CAPACITOR AND ELECTRONIC DEVICE

Inventor: SHIRAKAWA AKIHIKO (JP)

Applicant: SHOWA DENKO KK (JP); SHIRAKAWA AKIHIKO (JP)

EC:

IPC: **C01G23/00; H01G4/12; H01G4/30** (+7)

Publication info: **WO2007074875** - 2007-07-05

4 Dielectric element, piezoelectric element, ink jet head and ink jet recording apparatus and manufacturing method of same

Inventor: MATSUDA TAKANORI (JP); IFUKU TOSHIHIRO Applicant: CANON KK (JP); WASA KIYOTAKA (JP) (+2)

EC: H01G4/12B2B; B41J2/14D2; (+8)

IPC: **H01L41/09; B41J2/01; B41J2/045** (+8)

Publication info: **TW255057B** - 2006-05-11

5 PIEZOELECTRIC CERAMIC COMPOSITION AND PIEZOELECTRIC CERAMIC ELEMENT USING THE SAME

Inventor: SAKABE YUKIO; TAKEDA TOSHIKAZU

Applicant: MURATA MANUFACTURING CO

EC: C04B35/495

IPC: **C04B35/00; C04B35/495; H01L41/09** (+8)

Publication info: **KR20020018064** - 2002-03-07

6 PIEZOELECTRIC CERAMIC COMPOSITION

Inventor: CHO YEONG GUK; KIM WOL MYEONG

Applicant: LG INNOTEC CO LTD

EC:

IPC: **C04B35/497; C04B35/495; (IPC1-7): C04B35/497**

Publication info: **KR20040001719** - 2004-01-07

7 LOW TEMPERATURE SINTERING PIEZOELECTRIC CERAMIC COMPOSITION FOR PARTS FEEDERS

Inventor: CHO JEONG HO; CHOI BYUNG YUL; (+1)

Applicant: KOREA INST OF CERAMIC ENGINEER

EC:

IPC: **C04B35/49; H01B3/12; H01G4/12** (+6)

Publication info: **KR20050022105** - 2005-03-07

8 LOW TEMPERATURE SINTERED PSN-PZT-PNW COMPOSITION FOR PIEZOELECTRIC TRANSFORMERS AND PRODUCTION THEREOF

Inventor: WOO WON HEE; YOO JU HYUN

Applicant: YOO JU HYUN

EC:

IPC: **C04B35/493; H01L41/187; C04B35/49** (+3)

Publication info: **KR20050005686** - 2005-01-14

9 FLUID SENSOR BY USING SLIT ELASTIC WAVE

Inventor: CHEREDNICK VALENTIN (RU); CHOI YONG

Applicant: LG INNOTEC CO LTD (KR)

RIM (KR); (+1)

EC: IPC: **G01N11/00; G01N11/00**; (IPC1-7): G01N11/00

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If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

dielectric constant

AND

AND

piezoelectric layer

AND

AND

AND

AND

Date of publication of application --- e.g. 19980401 - 19980405

-

AND

IPC --- e.g. D01B7/04 A01C11/02

If you use the OR operation, please leave a SPACE between keywords.

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Searching PAJ

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Index Indication

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Text Search

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the button to the right.

Number Search**Applicant,Title of invention,Abstract** --- e.g. computer semiconductor

If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

dielectric constant

AND

AND

piezoelectric laminate

AND

AND

AND

AND

Date of publication of application --- e.g.19980401 - 19980405

-

AND

IPC --- e.g. D01B7/04 A01C11/02

If you use the OR operation, please leave a SPACE between keywords.

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|---|------|-----|------|--|---|----------------------|----------|
| 1 | IS&R | L3 | 3648 | (310/328,366).CCLS. | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 08:18 | |
| 2 | BRS | L4 | 2203 | 13 and (stack or plies or laminat\$4 or layer\$3) | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 09:31 | |
| 3 | BRS | L5 | 2220 | 13 and (multilayer\$3 or stack or plies or laminat\$4 or layer\$3) | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 09:32 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|---|----------------------|----------|
| 4 | BRS | L6 | 147 | 15 and dielectric adj2 constant | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 08:42 | |
| 5 | BRS | L7 | 1 | "20070069610" | US- PGPUB | 2007/10/1 0 08:25 | |
| 6 | BRS | L8 | 1 | 17 and ("9" and dielectric adj2 constant) | US- PGPUB | 2007/10/1 0 08:28 | |
| 7 | BRS | L9 | 0 | 17 and ("Fig. 9" and dielectric adj2 constant) | US- PGPUB | 2007/10/1 0 08:27 | |
| 8 | BRS | L10 | 1 | 17 and inactive | US- PGPUB | 2007/10/1 0 08:28 | |
| 9 | BRS | L11 | 1 | "20050046310" and "dielectric constant" | US- PGPUB | 2007/10/1 0 08:42 | |
| 10 | BRS | L12 | 1 | (10/959054).APP. | USPAT ; USOCR | 2007/10/1 0 08:52 | |
| 11 | BRS | L13 | 1 | ("2005/0046310").URPN. | USPAT | 2007/10/1 0 08:53 | |
| 12 | BRS | L14 | 5 | ("5118982" "5861704" "6182340" "6215227" "6229247").PN. | US- PGPUB ; USPAT ; USOCR | 2007/10/1 0 09:07 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|-------|--|---|----------------------|----------|
| 13 | BRS | L15 | 14114 | (piezoelectric or electroactive or electrostrictive or electrodisplacive) adj2 (multilayer\$3 or stack or plies or laminat\$4 or layer\$3) | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 09:33 | |
| 14 | BRS | L16 | 14031 | 115 not 16 | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 09:33 | |
| 15 | BRS | L17 | 772 | 116 and "dielectric constant" | US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB | 2007/10/1 0 09:34 | |